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CERTIFICATE OF ANALYSIS

STATUS: RELEASED **REVISION:** 00
DATE: 08/09/2021

Analysis ID No. 212620
TDA License No. 2020002
ISO/IEC No. 1055838
Purchase Order: 20210688
Page No. Page 1 of 2

CUSTOMER INFORMATION	SAMPLE INFORMATION
Company Name:	**Submitted Sample Name:**
Kats Botanicals	Kratom leaf Powder
Address:	**Submitted Sample Lot:**
6300 N. Andrews Avenue #297, Fort Launderdale, FL 33309	0001474
Phone Number:	**Submitted Sample Description:**
877-301-9923	Powder in Plastic Bag with Twist Tie; Stored at Room Temp
Contact Name / Email:	**Submitted Sample Product Type / Matrix:**
N/A	Kratom Leaf Powder / Plant Matter

ALKALOIDS ASSAY

Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Mitragynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	1.463 w/w% 14.627 mg/g	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.280 w/w% 2.797 mg/g	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.185 w/w% 1.848 mg/g	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.414 w/w% 4.138 mg/g	Results Reported
7-OH-Mitragynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only % Total Alkaloids: NMT 2%	< 0.01 w/w%	PASS
Mitraphylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	< 0.01 w/w%	Results Reported
Isorhynchophylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.018 w/w% 0.184 mg/g	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	2.359 w/w% 23.593 mg/g	Results Reported

HEAVY METALS ASSAY

Analysis	Test Method	LOQ	Specifications	Test Results	Pass / No Pass
Lead	USP <232> <233> by ICP-MS	10 ppb	NMT 1000 ppb	394.8 ppb	PASS
Mercury	USP <232> <233> by ICP-MS	5 ppb	NMT 500 ppb	22.6 ppb	PASS
Arsenic	USP <232> <233> by ICP-MS	10 ppb	NMT 1500 ppb	295.3 ppb	PASS
Cadmium	USP <232> <233> by ICP-MS	10 ppb	NMT 300 ppb	21.4 ppb	PASS
Nickel	USP <232> <233> by ICP-MS	50 ppb	NMT 200,000 ppb	2,750.3 ppb	PASS

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MICROBIOLOGICAL ASSAY					
Analysis	**Test Method**	**LOQ**	**Specifications**	**Test Results**	**Pass / Fail**
Total Aerobic Plate Count (TAPC)	Isolation Agar	200 CFU/gm	NMT 10,000,000 CFU/gm	410,667 CFU/gm	PASS
Total Yeast & Mold (TYM)	Isolation Agar	20 CFU/gm	NMT 100,000 CFU/gm	60,000 CFU/gm	PASS
Coliforms	Isolation Agar	20 CFU/gm	NMT 10,000 CFU/gm	1,490 CFU/gm	PASS
Escherichia coli (E.coli)	Isolation Agar	1 CFU/10 gm	Absent in 10 gm	Absent	PASS
Salmonella	Isolation Agar	1 CFU/25 gm	Absent in 25 gm	Absent	PASS

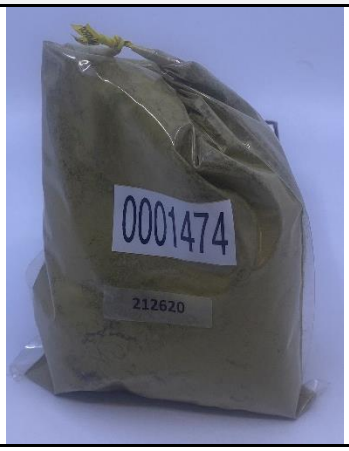
TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	**Santé Sample ID:** 212620 **Receipt Date:** 07/30/2021 / 10:32 AM CST / S. ORTEGA **Receipt Condition:** Good **Analysis Start Date:** 07/30/2021

ADDITIONAL REPORT NOTES

The reported results presented in this document is only applicable to samples submitted to Santé Laboratories for testing and may not represent the entire lot and/or batch produced by the manufacturer. **Heavy metal specifications according to limits defined by Texas DSHS for consumable hemp. Nickel specification according to oral drug products per USP <232>. Microbiological specifications follow AHPA guidelines for botanical ingredients (non-extract).**
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VERSION HISTORY		
Version	**Effective Date**	**Summary of Changes**
00	08/09/2021	Initial Release

PRODUCT SAMPLE / IMAGE



REVIEWED AND APPROVED BY

DocuSigned by:
Brian Sloat
1DA7685D65C740B...

Brian Sloat, Ph.D.
Chief Scientific Officer / Quality Manager
Santé Laboratories

8/9/2021
Date *DD-MM-YY*

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